SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service Washington, DC



U.S. Department of Transportation

Federal Aviation Administration

SAIB NM-05-69 July 8, 2005

http://www.faa.gov/aircraft/safety/alerts/

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin (SAIB) provides information to you, owners and operators of various Surplus Military airplanes (table 1) manufactured by Northrop Grumman Corporation. We used "Jane's All The World's Aircraft" reference material from 1954 through 1973, as well as information from operators to determine the various aircraft for incorporation in this SAIB.

Background

The California Department of Forestry has two Type Certificates for aircraft similar to the aircraft identified in this SAIB and includes models S-2F3AT and TS-2A. Their type certificates contain approved maintenance procedures for their aircraft based on military maintenance manuals and procedures available from the public domain. This SAIB provides information to all potentially affected operators, including those with airplanes that don't have a US type certificate.

TABLE 1					
Model	Models with Variations for different Customers and				
	Missions				
S-2F1 (S-2A)	US-2A, S2F-1T (TS-2A),				
	S2F-1S (S-2B US-2B), S2F-				
	1S1 (S-2F) CS2F-1, CS2F-2,				
	S-2FT				

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S-2C. I	IS-2C	S2F-2P (

S-2F2	S-2C, US-2C, S2F-2P (RS-2C)
S-2F3, (S-2D)	E2-D, US-2D, S2F-3S (S-2E),
	S-2G, YS-2G, S-2T, CS2F-3,
	S-2F3AT, S2F-3T
C-1	C-1A, TF-1, TF-1Q (EC-1A)

During annual inspections, an operator found the horizontal stabilizer mount fittings, P/N 89TM2060-1 and -3 had exfoliation corrosion. While replacing those fittings, a fleet wide inspection of the operator's aircraft found additional aircraft with corrosion. They repaired all corrosion.

The aircraft's horizontal stabilizer structure has a semi-monocogue construction. While other aspects of the construction of the horizontal stabilizer may have variations, the horizontal stabilizer mount fittings P/N 89TM2060-1, -2, -3 and -4 are generally common to all listed aircraft. We based our recommendations on dimensions taken from a Navy S-2G model aircraft.

Recommendations

We are concerned about corrosion and related cracking in the horizontal stabilizer mounting fitting of aircraft that may not have adequate maintenance programs. We have considered the consequences of horizontal stabilizer mount fitting corrosion and operator's actions to mitigate the hazards for their fleet.

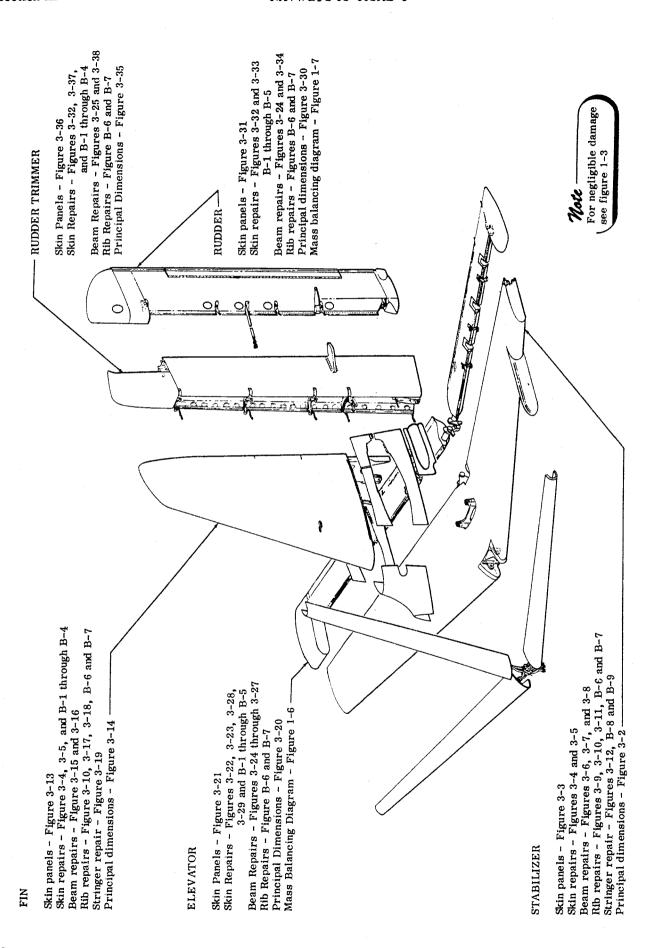
We highly recommend you perform annual inspections to visually inspect the horizontal stabilizer mount fitting for corrosion. The mount fittings can be found on the horizontal stabilizer 4.75 inches outboard of the airplane centerline on both left and right sides of the horizontal stabilizer at fuselage station 451.667. If you find any corrosion, you should repair or replace the part. You can perform the inspections under the military maintenance manuals (portions attached).

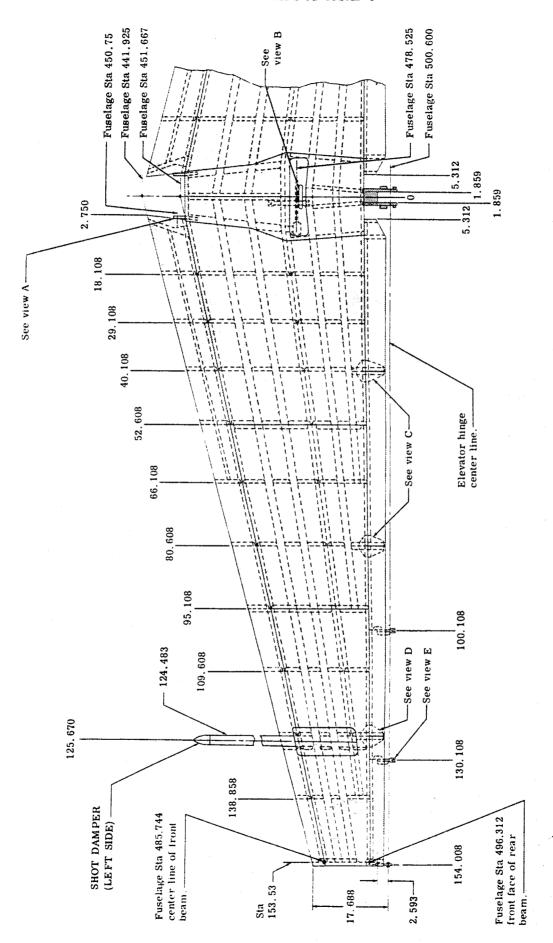
For Further Information Contact

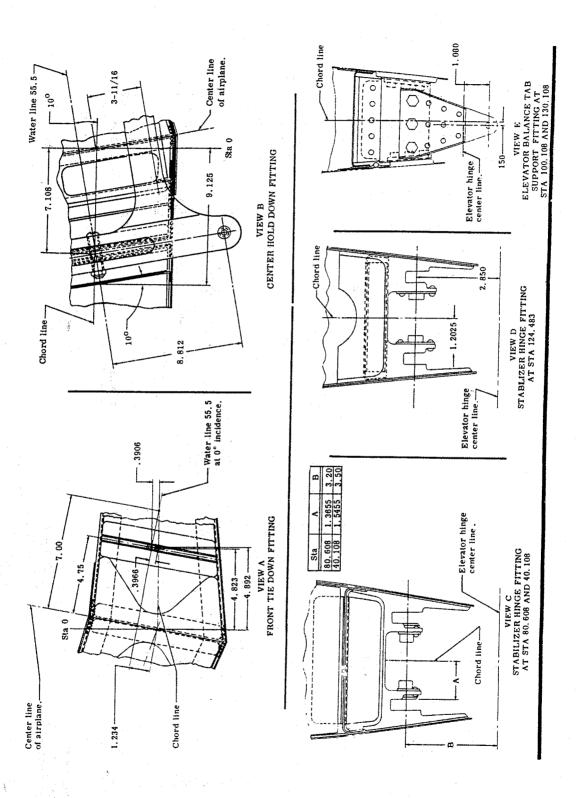
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email: john.cecil@faa.gov

GRAIN OPTIONAL







NAVAIR 01-855AD-4-2

FIGURE AND INDEX PART NUMBER 1 2 3 4 5 6		PART NUMBER	DESCRIPTION 1 2 3 4 5 6 7	UNITS PER ASSY	USABLE ON CODE
	11 25	0073150 0	*		
	11 ~ 25 - 26	89T2159-2 89T2159-36	 SKIN ASSY, RH LEAF, BUTT HINGE /ALTERED FROM GOVT STD PART NO. MS20001PY6-4100/ 	1	
*	- 27	89T2159-69	/ATTACHING PARTS/ • PIN, STRAIGHT, HEADLESS /ALTERED FROM • • • GOVT STD PART NO. AN253-2-4172/	1	
	- 28	89T2159-34	• LEAF, BUTT HINGE /ALTERED FROM GOVT STD PART NO. MS20001PX2-4100/	1	
		89TM2060-1	. FITTING ASSY, FRONT TIE DOWN, LH	,	
. N		89TM2060-2	• FITTING ASSY, FRONT TIE DOWN, RH	1	
	- 29	G26-M-6-4	BUSHING, SLEEVE	1	
	- 30	89TM2060-3	FITTING, LH	1	
		89TM2060-4	FITTING, RH	1	
		89TM1823-1	FITTING ASSY, MAIN BEAM TIE DOWN	1	
	- 30A	G26-M-9-12	BUSHING, SLEEVE	2	
	- 30B	89TM1823-3	FITTING	1	
	- 31	89TM1286-1	• FITTING ASSY, STABILIZER CENTER HOLD DOWN	1	107
		89TM1286-5	- FITTING ASSY, STABILIZER CENTER HOLD DOWN	1 1	VY VI
	- 32	NAS464P9-37	BOLT, SHEAR	2	
		AN960D916L	. WASHER, FLAT	4	
		AN364-918	NUT, SELF-LOCKING, HEXAGON	2	
			-7-*	6	
	- 33	G27-7-8	- BUSHING, SLEEVE	4	
	- 34	G27-9-22	BUSHING, SLEEVE	4	
	- 35	G27-10-10	BUSHING, SLEEVE	4	
	- 35A	89TM10057-3	 FITTING, STABILIZER TAB ACTUATOR MOUNT/ATTACHING PARTS/ 	1	
	- 35B	NAS1103-4 AN960-10	BOLT, MACHINE	8	
		AN 960-10	. WASHER, FLAT	8	
	- 36	121CSM10003-1	EITTING ACCY CTARTLIZED WITH S		
		121CSM10003-2	FITTING ASSY, STABILIZER HINGE, LH	1	
	- 37	121CSM10010-1	 FITTING ASSY, STABILIZER HINGE, RH BUSHING 	1	
	- 37A	89TM1006-1	BUSHING HINGE ASSY, STA 40	1	
	37B	89TM1005-1	HINGE ACCY CTA OD E	2	
	- 37C	89TM2067-1	HINGE ASSY, STA 80.5	2	
	- 37D	89TM10597-1	FITTING, BALANCE TAB SUPPORT	2	
		_	/ATTACHING PARTS/	4	
	- 37E	NAS1104-5	BOLT, MACHINE	3	
		AN960D416L	WASHER, FLAT	3	
		G-N10U-428	• NUT, SELF-LOCKING, HEXAGON • • • • • • • • • • • • • • • • • • •	6 3	
	_ 37F	89TM10298-1	FITTING, OUTBOARD HINGE	2	
	- 37G	NAS1104-11	/ATTACHING PARTS/		
		AN960D416	BOLT, MACHINE	6	
		G-N10U-428	- WASHER, FLAT	12	
			• NOT, SEET-LUCKING, HEXAGUN .:	6	
	- 38	89T2067-1	• SEAL, ELEVATOR TO STABILIZER	_	
	- 39	89T2067-3	SEAL, ELEVATOR TO STABILIZER	2	
	- 40	89T2067-5	SEAL, ELEVATOR TO STABILIZER	2	
	- 41	89T2067-7	- SEAL - FLEVATOR TO CTARTITIES	2	
	- 42	89T2067-9	SEAL, ELEVATOR TO STABILIZER	2	
	- 43	89T2067-11	- SEAL - ELEVATOR TO CTARTLY	2	
	- 44	89T2067-13	SEAL, ELEVATOR TO STABILIZER	2	
			- SELECT RECOMPON TO STABILIZER	2	